

**AT A PUBLIC HEARING OF THE DUMFRIES TOWN COUNCIL, HELD ON
JANUARY 31, 2012, AT 7:00 P.M., IN COUNCIL CHAMBERS, 17755 MAIN STREET,
DUMFRIES, VIRGINIA:**

THERE WERE PRESENT: Mayor Nancy West
Vice-Mayor Willie Toney

THERE WERE ABSENT: Dorothea Barr
Gerald Foreman
Kristin Forrester
Michele Jurgensen
Gwen Washington

OTHERS PRESENT: Normand Goulet, Senior Environmental Planner &
Occoquan Program Manager
Greg Tkac, Public Works Director
Richard West, Assistant Public Works Director
David Moss, Town Planner/Zoning Administrator

**IN RE: PUBLIC HEARING
A. NORTHERN VIRGINIA REGIONAL WATER SUPPLY PLAN –
NORMAND GOULET**

Mr. Goulet went over the following information about the Water Supply Plan in a PowerPoint presentation.

Background

- o VA Code Section 62.1-44.38:1 requires a water supply plan
- o Designated Prince William County Service Authority (PWSCA) agent and Northern Virginia Regional Commission (NVRC) lead agency (December 2006)
- o Assistance by Metropolitan Washington Council of Governments (MWCOC) and Interstate Commission on the Potomac River Basin (ICPRB) for aligning schedules for Regional Population Projections and Potomac River Forecasts to Jurisdictional date requirements
- o Draft Northern Virginia Regional Plan submitted to the Virginia Department of Environmental Quality (DEQ) in November 2011
- o To be updated every five years and resubmitted every ten years
- o Plan Participants:
 - Every County, City, and Town within Northern Virginia
 - Partnership between Jurisdictions, Authorities and Regional Commission
 - Authorities lead for data collection within Jurisdictions service areas
 - Commission lead for data collection for Non-municipal Community Water Systems and Wells

Components of the Regional Plan

- o Inventory of existing water sources
- o Assessment of existing water use
- o Assessment of projected water demand
- o Statement of need if demands exceed source availability within the planning horizon

- o Analysis of alternatives to address projected source water deficits if existing
- o Description of water demand management actions
- o Drought Response and Contingency Plan

Town of Dumfries's Water Supply

- o Public Community Water System
 - Owned and Operated by the PWCSA
- o PWCSA purchases water from two (2) water supply systems within the geographic boundaries of the planning area:
 - Fairfax Water
 - Potomac River and the Occoquan Reservoir
 - City of Manassas
 - Lake Manassas
- o Non-Agricultural, Self-Supplied Users of More than 300,000 Gallons per Month of Surface Water or Ground Water
 - No known in Dumfries
- o Agricultural Self-Supplied Users of More than 300,000 Gallons per Month of Surface Water or Ground Water
 - No known in Dumfries
- o Residents and Businesses that are Self-supplied and Individual Wells Withdrawing Less than 300,000 Gallons per Month

Jurisdiction	Total Population	Population Served by Public CWS	Population Served by Private CWS	Population Served by Self-Supplied Businesses	Population Served by Individual Wells
Town of Dumfries	4,848	4,848	0	0	0

PWCSA Demand vs. Capacity

Projected PWCSA Daily Water Demand vs.
Purchased Water Capacity

(7.2 COG Average Day Demand Projections)

	2010 (MGD)	2020 (MGD)	2030 (MGD)	2040 (MGD)
Total Daily PWC Public Water System Demand	42.01	50.47	57.13	62.11
Total Daily PWC Public Water Purchased Capacity	67.80	67.80	80.80*	80.80
(*In 2020, PWCSA plans to purchase additional capacity of 12-14 MGD, which is reflected in 2030 capacity.)				

PWC Percent Public Water Capacity Utilized	62%	74%	71%	77%
Note: Projections assume 350 gallons per day/household				

CO-Op Water Supply

- o Regional public water supply surplus anticipated by 2040
- o Periods of drought could strain water supply
- o Conclusions of ICPRB 2010 Phase I Report:
 - 20-year forecast period (2030): 100% system reliability and no water supply deficits*
 - 30-year forecast period (2040): Regional system likely to be strained during serious drought
 - Summertime outdoor water use may be increasing

*Assuming that the range of hydrologic conditions experienced during past 78 years is representative of future conditions.

Demand Management Strategies

- o Report and Appendix discuss Policies and Programs in place for PWCSA and the Town of Dumfries
 - Conservation Practices
 - Uniform Statewide Building Code Sections
 - Conservation Measures
 - Technical, Education and Financial Programs
 - Conservation Policies
 - Distribution Line Replacement Program
 - Rate Structure

Alternative Evaluations

- o Regional Plan defers to CO-Op Plan:
 - Intake/pumping station on the Potomac estuary near head-of-tide below Little Falls, with discharge to Washington Aqueduct's Dalecarlia Reservoir
 - Reverse osmosis membrane treatment plant on the Occoquan estuary
 - Use of two quarries located in Fairfax County to augment Fairfax Water storage
 - Use of Loudoun County quarries to augment system storage, serving as pumped storage reservoirs
 - Small discussion on reuse and recycle potential options

Drought Response Plan

- o **DEQ requires every jurisdiction to have both a Plan and an Ordinance**
- o Regulation Requirements of Plan:
 - Structured to address *unique characteristics of water source(s)*
 - Contain graduated stages:
 - Watch Stage: Increase awareness
 - Warning Stage: Conservation activities to reduce use 5-10%
 - Emergency Stage: Mandatory activities to reduce use 10-15%
 - Shall include references to local *ordinances*
 - Specific triggers for government/citizen actions

- o Metropolitan Washington Council of Governments Drought Awareness Response Plan adopted as part of Regional Water Supply Plan
- o As PWCSA owns and operates the water system serving the Town of Dumfries the users in the Town follow any drought-related restrictions imposed by the PWCSA
- o PWCSA follows the Metropolitan Washington Council of Governments Drought Awareness Response Plan
 - Meets the intent of the regulation
 - Is incorporated into the Northern Virginia Regional Plan

Regional Water Supply Plan Adoption

- o Dumfries's Resolution for Water Supply Plan adoption to be considered February 7
- o Final Report to be submitted to DEQ following adoption by all Jurisdictions (late February)
- o DEQ reviews and provides comment
- o Regional Water Supply Plan can be viewed at: <http://www.novaregion.org/wsp>

There was a brief discussion on how the Plan was funded and it was determined that it was based on whether the locality is a City, County, or Town. The Town of Dumfries was charged \$5,000 to be included in the Northern Virginia Regional Water Supply Plan rather than developing a standalone plan.

Minutes transcribed by

Approved by

Dawn Hobgood
Town Clerk

Nancy H. West
Mayor